WATER, AIR, AND SOIL POLLUTION / *Volume 182 Nos. 1–4 June 2007*

Editorial

J. T. TREVORS / The oldest organisms in our common biosphere 1

A. THIAGARAJAN, R. GORDON, A. MADANI and G. W. STRATTON / Discharge of *Escherichia Coli* from Agricultural Surface and Subsurface Drainage Water: Tillage Effects 3–12

G. SUN, Y. Q. ZHAO and S. J. ALLEN / An Alternative Arrangement of Gravel Media in Tidal Flow Reed Beds Treating Pig Farm Wastewater 13–19

JOÃO CANÁRIO, RICARDO PREGO, CARLOS VALE and VASCO BRANCO / Distribution of Mercury and Monomethylmercury in Sediments of Vigo Ria, NW Iberian Peninsula 21–29

JEN-HOW HUANG, FRANK SCHERR and EGBERT MATZNER / Demethylation of Dimethylarsinic Acid and Arsenobetaine in Different Organic Soils 31–41

JOSEPH L. AWANGE and BENARD OBERA / Motor Vehicles: Are They Emerging Threats to Lake Victoria and its Environment? 43–56

T. J. SULLIVAN, J. R. WEBB, K. U. SNYDER, A.T. HERLIHY and B. J. COSBY / Spatial Distribution of Acid-sensitive and Acid-impacted Streams in Relation to Watershed Features in the Southern Appalachian Mountains 57–71

HOANG THI THANH THUY, NGUYEN NHU HA VY and TU THI CAM LOAN / Anthropogenic Input of Selected Heavy Metals (Cu, Cr, Pb, Zn and Cd) in the Aquatic Sediments of Hochiminh City, Vietnam 73–81

P. KRUPA and J. KOZDRÓJ / Ectomycorrhizal Fungi and Associated Bacteria Provide Protection Against Heavy Metals in Inoculated Pine (*Pinus Sylvestris* L.) Seedlings 83–90

MASAHIDE AIKAWA, MOTOHARU SUZUKI, TAKATOSHI HIRAKI, MOTONORI TAMAKI, AKIRA KONDO, HITOSHI MUKAI and KENTATO MURANO / Intensive Field Survey of Aerosol and Gas Concentrations with 6-h Interval Sampling in Winter in Japan 91–105

LU YU, GEORGE P. COBB, WILLIAM A. JACKSON, SCOTT T. MCMURRY, PHILLIP N. SMITH and TODD A. ANDERSON / Evaluation of Passive Sampling Devices as Potential Surrogates of Perchlorate Uptake into Soybean 107–116

CHAD SHOUQUAN CHENG, MONICA CAMPBELL, QIAN LI, GUILONG LI, HEATHER AULD, NANCY DAY, DAVID PENGELLY, SARAH GINGRICH and DAVID YAP / A Synoptic Climatological Approach to Assess Climatic Impact on Air Quality in South-central Canada. Part II: Future Estimates 117–130

CHAD SHOUQUAN CHENG, MONICA CAMPBELL, QIAN LI, GUILONG LI, HEATHER AULD, NANCY DAY, DAVID PENGELLY, SARAH GINGRICH and DAVID YAP / A Synoptic Climatological Approach to Assess Climatic Impact on Air Quality in South-central Canada. Part I: Historical Analysis 131–148

STEVEN SETTLE, ASHANTHA GOONETILLEKE and GODWIN A. AYOKO / Determination of Surrogate Indicators for Phosphorus and Solids in Urban Stormwater: Application of Multivariate Data Analysis Techniques 149–161

MALLE MANDRE and REET KORSJUKOV / The Quality of Stemwood of *Pinus sylvestris* in an Alkalised Environment 163–172

ANNIKA LUNDMARK and BO OLOFSSON / Chloride Deposition and Distribution in Soils Along a Deiced Highway – Assessment Using Different Methods of Measurement 173–185

D. J. ASHWORTH and B. J. ALLOWAY / Complexation of Copper by Sewage Sludge-derived Dissolved Organic Matter: Effects on Soil Sorption Behaviour and Plant Uptake 187–196

ALFONSO SAIZ-LOPEZ, ALBERTO NOTARIO, JOSÉ ALBALADEJO and GORDON MCFIGGANS / Seasonal Variation of NO_x Loss Processes Coupled to the HNO_3 Formation in a Daytime Urban Atmosphere: A Model Study 197–206

MICHAEL T. ROSE, ANGUS N. CROSSAN and IVAN R. KENNEDY / Dissipation of Cotton Pesticides from Runoff Water in Glasshouse Columns 207–218

AI YAMAGUCHI, DORJEE G. TAMANG and MILTON H. SAIER JR. / Mercury Transport in Bacteria 219–234

THAM YASMIN WAI FON, OZAKI NORIATSU and SAKUGAWA HIROSHI / Polycyclic Aromatic Hydrocarbons (PAHs) in the Aerosol of Higashi Hiroshima, Japan: Pollution Scenario and Source Identification 235–243

E. I. B. CHOPIN and B. J. ALLOWAY / Distribution and Mobility of Trace Elements in Soils and Vegetation Around the Mining and Smelting Areas of Tharsis, Ríotinto and Huelva, Iberian Pyrite Belt, SW Spain 245–261

X.-J. LIN, S. BARRINGTON, J. NICELL, D. CHOINIÈRE and S. KING / Livestock Odour Dispersion as Affected by Natural Windbreaks 263–273

SCOTT BROWN, LAUREL SAITO, CHRISTOPHER KNIGHTES and MAE GUSTIN / Calibration and Evaluation of a Mercury Model for a Western Stream and Constructed Wetland 275–290

C. L. VAN BEEK, P. DROOGERS, H. A. VAN HARDEVELD, G. A. P. H. VAN DEN EERTWEGH, G. L. VELTHOF and O. OENEMA / Leaching of Solutes from an Intensively Managed Peat Soil to Surface Water 291–301

GREGORY P. LEWIS, JENNIFER D. MITCHELL, C. BRANNON ANDERSEN, DENNIS C. HANEY, MIN-KEN LIAO and KENNETH A. SARGENT / Urban Influences on Stream Chemistry and Biology in the Big Brushy Creek Watershed, South Carolina 303–323

D. K. PAPANASTASIOU, D. MELAS and I. KIOUTSIOUKIS / Development and Assessment of Neural Network and Multiple Regression Models in Order to Predict PM10 Levels in a Medium-sized Mediterranean City 325–334

ALGIRDAS AUGUSTAITIS, INGRIDA AUGUSTAITIENE and ROMUALDAS DELTUVAS / Scots Pine (*Pinus sylvestris L.*) Crown Defoliation in Relation to the Acid Deposition and Meteorology in Lithuania 335–348

DANELLE MOHAMMED, ADESH RAMSUBHAG and DENISE M. BECKLES / An Assessment of the Biodegradation of Petroleum Hydrocarbons in Contaminated Soil Using Non-indigenous, Commercial Microbes 349–356

ANDREAS KREIN, MERCE SALVIA-CASTELLVI, JEAN FRANCOIS IFFLY, LAURENT PFISTER and LUCIEN HOFFMANN / The Importance of Precedent Hydro-climatological Conditions for the Mass Transfer of Pollutants in Separated Sewer Systems and Corresponding Tributaries During Storm Events 357–368

A. M. HARDIE, K. V. HEAL and A. LILLY / The Influence of Pedology and Changes in Soil Moisture Status on Manganese Release from Upland Catchments: Soil Core Laboratory Experiments 369–382

C.A. ARRIAGADA, M. A. HERRERA, F. BORIE and J. A. OCAMPO / Contribution of Arbuscular Mycorrhizal and Saprobe Fungi to the Aluminum Resistance of *Eucalyptus globulus* 383–394

VUOKKO KARLSSON, KATRIINA PYY and HELENA SAARI / Measurement Uncertainty of Sulphur and Nitrogen Containing Inorganic Compounds By 1-Stage and 2-Stage Filter-pack Methods 395–405

MICHAEL W. H. EVANGELOU, SANDRA KUTSCHINSKI-KLÖSS, MATHIAS EBEL and ANDREAS SCHAEFFER / Potential of *Borago officinalis*, *Sinapis alba L.* and *Phacelia boratus* for Phytoextraction of Cd and Pb from Soil 407–416

Erratum

D. C. BOWMAN, DALE A. DEVITT and W. WALLY MILLER / The Effect of Moderate Salinity on Nitrate Leaching from Bermudagrass Turf: A Lysimeter Study 417–419

Available online
www.springerlink.com